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*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

October 10, 2003

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Art Unit 1645

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Re: U.S. Utility Patent Application

Appl. No. 10/600,581; Filed: June 23, 2003

For: Molecular Detection Systems Utilizing Reiterative Oligonucleotide

Synthesis

Inventors:

Michelle M. Hanna

Our Ref:

2072.0010002/LBB/SJE

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Second Supplemental Information Disclosure Statement;
- 2. Form PTO-1449 (9 sheets citing 31 documents); and
- 3. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Lune B. Bugarely

Lawrence B. Bugaisky Attorney for Applicant

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LBB/SJE/lam Enclosures

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In re application of:

Michelle M. HANNA

Appl. No. 10/600,581

Filed: June 23, 2003

For: Molecular Detection Systems

Utilizing Reiterative Oligonucleotide Synthesis Confirmation No. To be assigned

Art Unit: 1645

Examiner: To be assigned

Atty. Docket: 2072.0010002/LBB/SJE

Second Supplemental Information Disclosure Statement

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicant's First Supplemental Information Disclosure Statement filed on August 12, 2003, in connection with the above-captioned application. Copies of the cited documents were cited by or submitted to the Office in Information Disclosure Statements that comply with 37 C.F.R. § 1.98(a)-(c) in Application No. 09/984,664, filed October 30, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

The Examiner is referred to the following list of related, co-pending patent applications:

International Application PCT/US02/3419, filed October 29, 2002, which designates the United States and was published in English on May 8, 2003 as WO 03/038942 A2, listed as document **AM1**; and

U.S. Patent Application No. 10/425,037, filed April 29, 2003.

The Examiner is also referred to the following list of related, co-pending patent applications which contain the identical specification as the present application:

- U.S. Patent Application No. 09/984,664, filed October 30, 2001;
- U.S. Patent Application No. 10/602,045, filed June 24, 2003; and
- U.S. Patent Application No. 10/607,136, filed June 27, 2003.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicant has listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Michelle M. HANNA Appl. No. 10/600,581

- 3 -

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

James B. Beguish

Lawrence B. Bugaisky Attorney for Applicant

Registration No. 35,086

Date: <u>J. J. 2003</u> 1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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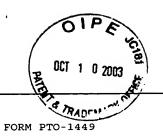
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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 2072.0010002/LBB/SJE	APPLICATION NO. 10/600,581
APPLICANT Michelle Hanna	
FILING DATE June 23, 2003	GROUP 1645

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Page 2 of 9



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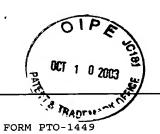
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Page 4 of 9



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	AR	<u>15</u>	Herman, J.G., et al., "Incidence and functional consequences of hMLH1 promoter hypermethylation in colorectal carcinoma," Proc. Natl. Acad. Sci. USA 95:6870-6875, National Academy of Sciences (1998).					
	AS	<u>15</u>	Tumors of Pat	Horii, A., et al., "Frequent Replication Errors at Microsatellite Loci in Tumors of Patients with Multiple Primary Cancers," <i>Cancer Res.</i> 54:3373-3375, American Association for Cancer Research (1994).				
	AT	<u>15</u>	Issa, JP.J. ageing and ne Co. (1994).	, et al., "M eoplasia in h	Methylation of the oestronuman colon," Nat. Genet.	ogen red	ceptor CpG i -540, Nature	sland links:
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ATTY. DOCKET NO. 2072.0010002/LBB/SJE	APPLICATION NO. 10/600,581						
APPLICANT Michelle Hanna							
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ATTY. DOCKET NO. 2072.0010002/LBB/SJE APPLICATION NO. 10/600,581

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APPLICANT Michelle Hanna

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INFORMATION DISCLOSURE STATEMENT June 23, 2003 1645 U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER NAME CLASS SUB-CLASS FILING DATE DATE INITIAL AA ΑВ AC AD AE AF AG AΗ ΑI АJ AK FOREIGN PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION INITIAL Yes No ALYes No AΜ Yes AN No Yes No ΑO Yes No AΡ OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vogelstein, B., and Kinzler, K.W., "The multistep nature of cancer," Trends AR 20 Genet. 9:138-141, Elsevier Science Publishers Ltd. (1993). Wang, J.-Y., et al., "Monovalent cations differ in their effects on AS transcription initiation from a G-70 promoter of Escherichia coli, " Gene 20 196:95-98, Elsevier Science B.V. (1997). Wu, D.Y., and Wallace, R.B., "The Ligation Amplification Reaction (LAR) -Amplification of Specific DNA Sequences Using Sequential Rounds of Template-AΤ 20 Dependent Ligation, " Genomics 4:560-569, Academic Press, Inc. (1989).

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